

Cited Reference 6



PATENT ABSTRACTS OF JAPAN

(11)Publication number : 64-061010

(43)Date of publication of application : 08.03.1989

(51)Int.Cl.

H01F 36/00

(21)Application number : 62-216301

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(22)Date of filing : 01.09.1987

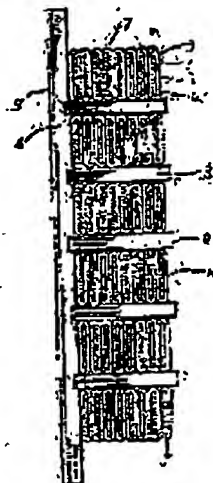
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(54) SUPERCONDUCTING TRANSFORMER

(57)Abstract:

PURPOSE: To minimize a mechanical external force applied to a superconducting material and to reduce an eddy current loss by forming a disk winding of a ribbonlike conductor in which an oxide superconducting material is surrounded by a metallic sheath.

CONSTITUTION: An oxide superconducting material 1 is filled in a metallic sheath 2 made, for example, of stainless steel to form a flat ribbonlike conductor 3, and which is formed with an insulating coating 4. This is wound radially on an insulating cylinder 5 on which a rail 6 is placed to obtain a plate-like coil 7. Crossover tracks 8 of cold coils 7 are alternately formed on the inner and outer peripheries of the coil 7, and a plurality of stacks of continuous disk winding 10 are axially formed through insulating spacers 9. Then, even if the winding 10 is axially rigidly clamped, the coils 7 are integrally received by a force, and the conductors 3 are effectively secured. Thus, an area crossing an axial magnetic field is reduced to decrease its eddy current loss.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

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